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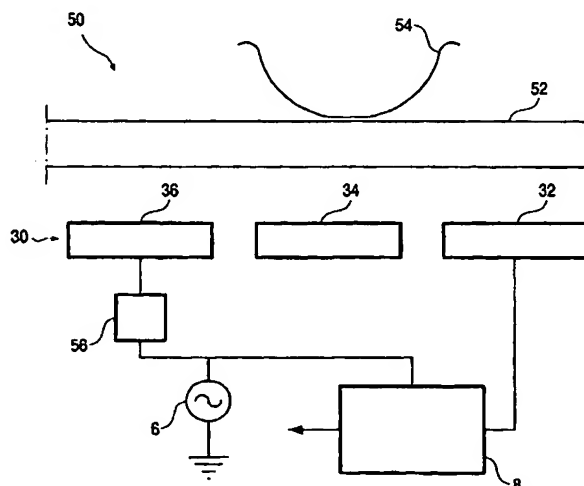
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(54) Title: CAPACITIVE OBJECT SENSOR



(57) Abstract: An object sensing system (50), and method, employing electric field sensing, also known as quasi-electrostatic sens-
ing and which may be termed cross capacitive sensing, is described. The system (50) comprises at least one electrode arrangement
(30), each electrode arrangement (30) comprising one electric field sensing reception electrode (32) and two electric field sensing
transmission electrodes (34, 36). One of the electric field sensing transmission electrodes (36) is driven with an alternating voltage
(130) comprising at least some antiphase portions, for example an inverted signal, in comparison to an alternating voltage (120) with
which the other electric field sensing transmission electrode (34) is driven. This improves the spatial precision of object sensing per-
formed by detecting changes in the current induced in the electric field sensing reception electrode (32). In one arrangement the two electric
field sensing transmission electrodes (34, 36) are in the form of annular rings arranged around the electric field sensing reception
electrode (32).

WO 2004/044827 A1



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